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NOTICE OF ALLOWANCE AND FEE(S) DUE

25944

7590

07/14/2010

OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850 EXAMINER

WONG, EDNA

ART UNIT PAPER NUMBER

1795

DATE MAILED: 07/14/2010

APPLICATION NO.	PPLICATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/077.777	02/20/2002	Shigeki Matsuda	111995	3646	

TITLE OF INVENTION: ELECTROLYTIC PHOSPHATE CHEMICAL TREATMENT METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/14/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance of nerwise in Block 1, by (rders and notification a) specifying a new co	of ma orrespo	intenance fees wondence address;	ill be and/or	mailed to the current (b) indicating a sep	corresp arate "F	pondence address as FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
OLIFF & BER P.O. BOX 3208. ALEXANDRIA	*		Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.						
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO:	RNEY DOCKET NO.	CON	FIRMATION NO.
10/077,777 TITLE OF INVENTION	02/20/2002 N: ELECTROLYTIC PHO	OSPHATE CHEMICAL	Shigeki Matsuda TREATMENT METH				111995		3646
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE I	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810		10/14/2010
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	;	¬				
WONG	1795	205-238000		_					
CFR 1.363). Change of corresp Address form PTO/SI "Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A	registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.								
recordation as set fort (A) NAME OF ASSI	th in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	T a substitute for filing (B) RESIDENCE: (C	g an as CITY a	signment. and STATE OR C	OUNT	RY)		
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):	∟ I:	ndividual 🖵 Co	rporati	on or other private gr	oup enti	ity Government
4a. The following fee(s) Issue Fee Publication Fee (N Advance Order	 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 								
**	ns SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no	_	-				
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if requirecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	nan the	applicant; a regi	stered a	ittorney or agent; or the	ie assig	nee or other party in
Authorized Signature					Date				
Typed or printed name					Registration N	o			
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but /irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	1.14. This collection is	s estin	nated to take 12 r	ninutes mment	to complete, including on the amount of ti	ng gathe	ering, preparing, and

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10/077,777	02/20/2002	Shigeki Matsuda	111995	3646		
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OLIFF & BERRI	DGE, PLC		WONG, EDNA			
P.O. BOX 320850			ART UNIT	PAPER NUMBER		
ALEXANDRIA, V	'A 22320-4850		1795			
		DATE MAILED: 07/14/2010				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/077,777	MATSUDA ET AL.			
Notice of Allowability	Examiner	Art Unit			
	EDNA WONG	1795			
	EDNA WONG	1795			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in or other appropriate communication is supplication is supplication.	n this application. If not included unication will be mailed in due course			
1. X This communication is responsive to <u>Amendment dated Ju</u>	ne 30, 2010.				
2. The allowed claim(s) is/are <u>1-5,8,10-13,15,16 and 19</u> .					
3. Acknowledgment is made of a claim for foreign priority ura) All b) Some* c) None of the:	nder 35 U.S.C. § 119(a)-(d)	or (f).			
 Certified copies of the priority documents have 	been received.				
2. Certified copies of the priority documents have	been received in Application	on No			
3. Copies of the certified copies of the priority do	cuments have been receive	d in this national stage application fro	m the		
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirem	ents		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			E OF		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftspers		v (PTO-948) attached			
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	-	,			
(b) ☐ including changes required by the attached Examiner's		in the Office action of			
Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			of		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			е		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of In	formal Patent Application			
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),			
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No.	Paper No./Mail Date 7. X Examiner's Amendment/Comment			
Paper No./Mail Date	. Zy Lizaminiei s	, anonamone dominion			
 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 8. ☑ Examiner's Statement of Reasons for Allogorement of Reaso					
/Edna Wong/		_			
Primary Examiner, Art Unit 1795					

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

IN THE CLAIMS

Claim 1, line 14, the word -- the -- has been inserted after the word "as".

See claim 1, lines 2-3. The subsequent mention of an element is to be modified by the definite article "the", "said" or "the said," thereby making the latter mention(s) of the element unequivocally referable to its earlier recitation.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Claims 1-5, 8, 10-13, 15-16 and 19 are allowable over the prior art of record because the prior art does not teach or suggest an electrolytic phosphate chemical treatment method of forming a film composed of a phosphate compound and a metal that is reduced and precipitated from an ionic state on the surface of a metal material article to be treated, comprising the step of performing as presently claimed, esp., wherein NO₂ and/or N₂O₄ gas generated and dissolved in the phosphate chemical treatment bath during a reduction reaction of the nitrate ions of the electrolytic treatment

is removed from the treatment bath by separating a treatment tank into an electrolytic treatment tank where the electrolytic treatment is carried out and an auxiliary tank where no electrolytic treatment is carried out, circulating the treatment bath between the two tanks, and *providing a mechanism that opens the treatment bath to the atmosphere* at a reduced pressure either between the two tanks or within the two tanks, as a means of separating the NO₂ and/or N₂O₄ gas from the treatment bath.

The prior art does not contain any language that teaches or suggests the above. *EP 1,074,640* and *Matsuda* do not teach wherein NO₂ and/or N₂O₄ gas generated and dissolved in the phosphate chemical treatment bath during a reduction reaction of the nitrate ions of the electrolytic treatment is removed from the treatment bath by separating a treatment tank into an electrolytic treatment tank where the electrolytic treatment is carried out and an auxiliary tank where no electrolytic treatment is carried out, circulating the treatment bath between the two tanks, and providing a mechanism that opens the treatment bath to the atmosphere at a reduced pressure either between the two tanks or within the two tanks, as a means of separating the NO₂ and/or N₂O₄ gas from the treatment bath. Therefore, a person skilled in the art would not have been motivated to adopt the above conditions, and a *prima facie* case of obviousness cannot be established.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on

Art Unit: 1795

Statement of Reasons for Allowance."

Citations

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Nishiya et al. (US Patent No. 6,984,300 B2) is cited to teach:

Next, means employed in the present invention for separating NO₂, N₂O₄ and/or NO, the gas generated in the treatment bath as electrolytic treatment proceeds, will be explained. Advantageously, by separating the phosphate chemical treatment tank into an electrolytic treatment tank that performs electrolytic treatment and an auxiliary tank that does not perform electrolytic treatment, and circulating the treatment bath between the two tanks, and providing a mechanism for exposing the treatment liquid to the atmosphere between the two tanks, or in the two tanks, NO, NO₂ and/or N₂O₄, that is, the gas generated and dissolved in the electrolytic treatment tank, can be removed from the bath. In the above-mentioned auxiliary tank that does not perform electrolytic treatment, a mechanism for causing the treatment liquid to pass through a net-like solid structure may be provided, or a filtration system having a mechanism for filtering the treatment bath may be advantageously employed. Further, a liquid circuit may be advantageously provided in which a portion of the treatment liquid is extracted at a position prior to being led to a filter member in the filtration system, and is exposed to atmosphere to remove the nitrogen oxides that exists in the treatment liquid, and then is returned to the electrolytic treatment tank (col. 7, lines 45-67).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to EDNA WONG whose telephone number is (571) 272-1349. The examiner can normally be reached on Mon-Fri 7:30 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Edna Wong/ Primary Examiner Art Unit 1795

EW July 7, 2010